

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		S62 AND ((plural\$4 OR multi\$5 OR many) NEAR5 (amplif\$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:17
		S62 AND ((plural\$4 OR multi\$6 OR many) NEAR5 (amplif\$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:16
		S20 AND (direct\$7 OR cup\$4 OR trumpet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:43
S1	61	("3763333" OR "3894194" OR "3967067" OR "4051331" OR "4099035" OR "4109116" OR "4405831" OR "4517415" OR "4633498" OR "4731850" OR "4852175" OR "4879749" OR "4947432" OR "4985925" OR "5003606" OR "5033090" OR "5271397" OR "5285502" OR "5303306" OR "5343532" OR "5347584" OR "5388185" OR "520930" OR "5506910" OR "5594387" OR "5621802" OR "5966400" OR "6128369").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/06 16:57

S2	25	("3763333" OR "3894194" OR "3967067" OR "4051331" OR "4099035" OR "4109116" OR "4405831" OR "4517415" OR "4633498" OR "4731850" OR "4852175" OR "4879749" OR "4947432" OR "4985925" OR "5003606" OR "5033090" OR "5271397" OR "5285502" OR "5303306" OR "5343532" OR "5347584" OR "5388185" OR "520930" OR "5506910" OR "5594387" OR "5621802" OR "5966400" OR "6128369").pn.	US-PGPUB; USPAT	ADJ	ON	2007/12/06 16:57
S3	26458	(704/200-201,205-218, E19.001-E19.009, E21.001-E21.012 OR 381/66-67,312-331,72- 74,93-117,122,150,337- 354,182-186).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/07 15:26
S4	2	"6353671".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/07 15:27
S5	11110	S3 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/07 15:28
S6	51	ear trumpet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 08:09
S7	5	S6 SAME (emulat\$7 OR simulat\$7 OR reproduc \$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 08:08

S8	21	S6 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 08:09
S9	21	S8 NOT (Kandell).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 08:09
S10	19	S8 NOT (Kandel).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 08:09
S11	622	ear (trumpet OR cup\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:11
S12	32	S11 SAME (emulat\$7 OR simulat\$7 OR reproduc \$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:11
S13	27	S12 NOT (Kandel).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:12
S14	9	S13 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:12
S15	290377	(speaker OR headphone OR acoustic driver)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:26

S16	28108	S15 WITH (emulat\$7 OR simulat\$7 OR reproduc\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:26
S17	14544	S15 NEAR3 (emulat\$7 OR simulat\$7 OR reproduc\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:26
S18	5101	S17 AND @ad <="19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:32
S19	9	S18 AND (speech intelligib\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 10:32
S20	32	(US-6128369-\$ or US-5966400-\$ or US-5621802-\$ or US-5594387-\$ or US-5285502-\$ or US-5271397-\$ or US-5506910-\$ or US-5343532-\$ or US-5303306-\$ or US-4879749-\$ or US-4852175-\$ or US-5033090-\$ or US-5003606-\$ or US-4985925-\$ or US-4947432-\$ or US-4405831-\$ or US-4109116-\$ or US-4731850-\$ or US-4633498-\$ or US-4517415-\$ or US-3894194-\$ or US-3763333-\$ or US-4099035-\$ or US-4051331-\$ or US-3967067-\$ or US-6307945-\$).did. or (US-5949889-\$ or US-5737430-\$ or US-5712917-\$ or US-5670758-\$ or US-5608803-\$ or US-	USPAT	ADJ	ON	2007/12/10 17:35

		3764748-\$).did.				
S21	19	S20 AND (direction\$7 OR cup\$4 OR trumpet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 17:39
S22	8	S20 AND (cup\$4 OR trumpet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 17:47
S23	51	ear trumpet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 18:10
S24	39	(convol&7 OR impulse model&7 OR simulat\$7 OR emulat&7) NEAR5 (phonograph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 17:55
S25	31	ear trumpet AND advantage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 18:11
S26	10	ear trumpet SAME advantage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/10 18:11
S27	3	(injection tone) SAME (modulat\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:46

S28	61	("3763333" OR "3894194" OR "3967067" OR "4051331" OR "4099035" OR "4109116" OR "4405831" OR "4517415" OR "4633498" OR "4731850" OR "4852175" OR "4879749" OR "4947432" OR "4985925" OR "5003606" OR "5033090" OR "5271397" OR "5285502" OR "5303306" OR "5343532" OR "5347584" OR "5388185" OR "520930" OR "5506910" OR "5594387" OR "5621802" OR "5966400" OR "6128369").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:46
S29	0	(injection tone) AND S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:47
S30	26466	(704/200-201,205-218, E19.001-E19.009, E21.001-E21.012 OR 381/66-67,312-331,72-74,93-117,122,150,337-354,182-186).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:47
S31	1	(injection tone) AND S30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:48
S32	11628	(injection OR signal OR control) (tone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:48
S33	288	S32 AND S30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:49

S34	11110	S30 AND @ad <="19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:49
S35	143	S33 AND S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:51
S36	2	S35 AND (modulat\$7 NEAR4 S32)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 10:52
S37	17	S35 AND ((pulse OR frequency) modulat\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 15:37
S38	24	((Kandel NEAR1 (Gillray OR G) OR (Ostrander NEAR1 (Lee OR L))).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/11 15:38
S39	3244	equalizer circuit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/12 09:41
S40	0	multi-band equalizer circuit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/12 09:41
S41	0	multiband equalizer circuit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/12 09:41

S42	15	multiband equalizer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/12 09:41
S43	42	(US-20020094099-\$).did. or (US-6128369-\$ or US- 5966400-\$ or US- 5621802-\$ or US- 5594387-\$ or US- 5003606-\$ or US- 4985925-\$ or US- 4947432-\$ or US- 5737430-\$ or US- 5712917-\$ or US- 5670758-\$ or US- 6353671-\$ or US- 4773094-\$ or US- 4539692-\$ or US- 4731850-\$ or US- 4633498-\$ or US- 4109116-\$ or US- 4099035-\$ or US- 3894194-\$ or US- 3763333-\$ or US- 5343532-\$ or US- 5506910-\$ or US- 5271397-\$ or US- 5033090-\$ or US- 5303306-\$ or US- 5285502-\$ or US- 4852175-\$).did. or (US- 4517415-\$ or US- 4405831-\$ or US- 4879749-\$ or US- 4051331-\$ or US- 3967067-\$ or US- 6647123-\$ or US- 6307945-\$ or US- 5949889-\$ or US- 5608803-\$ or US- 3764748-\$ or US- 5095539-\$ or US- 5001757-\$ or US- 4332979-\$ or US- 4939782-\$).did. or (WO- 9940755-\$).did.	US-PGPUB; USPAT; EPO	ADJ	ON	2007/12/12 17:57
S44	3378	(ear OR trumpet OR cup \$4) AND ((speech) WITH (intelligibility OR understand\$4 OR quality OR perceiv\$4 OR perception))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/01 11:06



S45	793	S44 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/01 11:06
S46	536	S45 AND circuit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/01 11:06
S47	246	S46 AND ((enhanc\$4 OR improv\$5) NEAR5 (speech OR intelligibility OR understand\$6 OR coheren\$5 OR perce\$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/01 11:07
S48	14	S47 AND ((emulat\$4 OR simulat\$4 OR mimic\$4 OR behav\$4 OR replicat\$4) NEAR5 (ear OR trumpet OR cup\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/01 11:09
S49	35	("3763333"   "3894195"   "3967067"   "4051331"   "4099035"   "4109116"   "4405831"   "4517415"   "4633498"   "4731850"   "4852175"   "4879749"   "4947432"   "4985925"   "5003606"   "5033090"   "5271397"   "5285502"   "5303306"   "5343532"   "5347584"   "5388185"   "5420930"   "5506910"   "5594387"   "5621802"   "5966400"   "6128369").PN. OR ("6353671").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 13:04
S50	16	S49 AND (intelligibility)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 13:05
S51	13	S50 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 13:05
S52	117	(second NEAR3 formant) AND intelligibility	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 14:20
S53	32	S52 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 14:20
S54	12	("4147991"   "4276604").PN. OR ("4721923").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:25

S55	10	S54 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:26
S56	4	S55 AND intelligibility	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:26
S57	40	("4340780"   "4610024"   "4612665"   "4628530"   "4631749"   "4739513"   "4888808"   "5146507"   "5384856"   "5386478").PN. OR ("5506910").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:40
S58	18	S57 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:40
S59	5	S58 AND (speech OR voice OR dialog\$2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:41
S60	1	S58 AND formant	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:42
S61	13	S58 NOT S59	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/01 17:42
S62	51	(amplif\$6 AND formant). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:16
S63	12	S62 AND ((plural\$4 OR multi\$4 OR many) NEAR5 (amplif\$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:17
S64	28	speech AND (ear NEAR2 (horn OR trumpet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:34
S65	99	speech AND (ear NEAR2 (horn OR trumpet OR cup \$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:34
S66	31	S65 AND @ad <= "19980205"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:34

S67	2	S66 AND ((simulat\$4 OR emulat\$4 OR re\$produc\$4) NEAR5 (horn OR trumpet OR cup\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 09:35
S68	57	(US-20020094099-\$ or US-20040057586-\$ or US-20040161128-\$).did. or (US-6647123-\$ or US-6353671-\$ or US-6307945-\$ or US-6128369-\$ or US-5712917-\$ or US-5966400-\$ or US-5949889-\$ or US-5737430-\$ or US-5608803-\$ or US-5621802-\$ or US-5303306-\$ or US-5594387-\$ or US-5506910-\$ or US-5343532-\$ or US-5095539-\$ or US-5285502-\$ or US-5271397-\$ or US-4947432-\$ or US-5033090-\$ or US-5003606-\$ or US-5001757-\$ or US-4773094-\$ or US-4985925-\$ or US-4939782-\$ or US-4879749-\$ or US-4539692-\$).did. or (US-4852175-\$ or US-4731850-\$ or US-4633498-\$ or US-4099035-\$ or US-4517415-\$ or US-4405831-\$ or US-4332979-\$ or US-3894194-\$ or US-4109116-\$ or US-4051331-\$ or US-3967067-\$ or US-3764748-\$ or US-3763333-\$ or US-4905285-\$ or US-5029217-\$ or US-3872250-\$ or US-4532930-\$ or US-4618985-\$ or US-4721923-\$ or US-5215085-\$ or US-5737719-\$ or US-	US-PGPUB; USPAT; EPO	ADJ	ON	2009/07/02 11:28

		6011853-\$ or US- 4340780-\$ or US- 5999631-\$ or US- 3975763-\$ or US- 5388185-\$ or US- 5459813-\$).did. or (WO- 9940755-\$).did.				
S69	41	(US-20020094099-\$).did. or (US-6647123-\$ or US- 6353671-\$ or US- 6307945-\$ or US- 6128369-\$ or US- 5712917-\$ or US- 5966400-\$ or US- 5949889-\$ or US- 5737430-\$ or US- 5608803-\$ or US- 5621802-\$ or US- 5303306-\$ or US- 5594387-\$ or US- 5506910-\$ or US- 5343532-\$ or US- 5095539-\$ or US- 5285502-\$ or US- 5271397-\$ or US- 4947432-\$ or US- 5033090-\$ or US- 5003606-\$ or US- 5001757-\$ or US- 4773094-\$ or US- 4985925-\$ or US- 4939782-\$ or US- 4879749-\$ or US- 4539692-\$).did. or (US- 4852175-\$ or US- 4731850-\$ or US- 4633498-\$ or US- 4099035-\$ or US- 4517415-\$ or US- 4405831-\$ or US- 4332979-\$ or US- 3894194-\$ or US- 4109116-\$ or US- 4051331-\$ or US- 3967067-\$ or US- 3764748-\$ or US- 3763333-\$).did. or (WO- 9940755-\$).did.	US-PGPUB; USPAT; EPO	ADJ	ON	2009/07/02 11:28
S70	16	S68 NOT S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/02 11:28

**7/ 2/ 2009 3:08:18 PM**

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